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Ink-jet printer ink for non-absorbing substrates - consisting of electron ray-curing monomer, colouring material and solvent

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Patent Family:

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JP 8218016	A	19960827	JP 9543676	A	19950209	199644 B

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Patent Details:

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JP 8218016	A	11	C09D-011/00		

Abstract (Basic): JP 8218016 A

An ink-jet printing ink compsn. (P1) contains electron ray-cure type monomer(s) (A), colouring material (B), and solvent (C), and (C) is either water (C1) or water-soluble solvent (C2), (B) is a pigment dispersion, both concns. of (A) and (B) are respectively below 50 wt.%, and (P) has a viscosity of less than 10 cP. Also claimed are ink-jet printing appts. (P2) such as (1) an ink-jet printer equipped with a means (D) for conducting printing on a printing substrate by means of a printing head having a discharging nozzle for (P1) and a means (E) for irradiating electron rays to the printing substrate, (2) an ink-jet printer equipped with (D), (E) and at least one means selected from a means for transporting printing substrate to (D), a means for transport printing substrate from (D) to (E), and a means for discharging the printing substrate from (E). Also claimed is an ink-jet printing method (M) having a printing process, in which printing is conducted on a printing substrate by means of a printing head having a nozzle for discharging (P1) and a process, in which electron rays is irradiated to the printed substrate.

USE - (P1), (P2), and (M) are suitable for ink-jet printing on printing substrates which do not substantially absorb inks.

ADVANTAGE - Printings obtd. by (P1), (P2), and (M) do not discolour during the printing process and are excellent in adhesion and resistances to light and rubbing.